

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 10/534,544

CRF Edit Date: 5/23/05
Edited by: [signature]

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

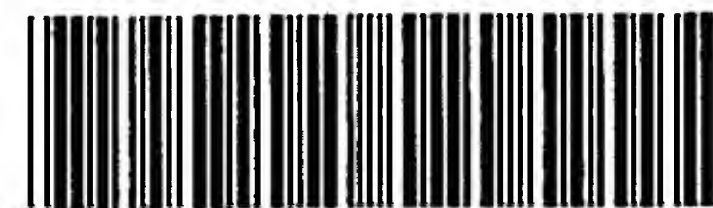
___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



PCT

RAW SEQUENCE LISTING

DATE: 05/23/2005

PATENT APPLICATION: US/10/534,544

TIME: 12:48:42

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05232005\J534544.raw

3 <110> APPLICANT: Pietrokovski, Shmuel
 4 Amitai, Gil
 6 <120> TITLE OF INVENTION: CHIMERIC AUTOPROCESSING POLYPEPTIDES AND USES THEREOF
 8 <130> FILE REFERENCE: 29489
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/534,544
 C--> 10 <141> CURRENT FILING DATE: 2005-05-10
 10 <160> NUMBER OF SEQ ID NOS: 109
 12 <170> SOFTWARE: PatentIn version 3.2
 14 <210> SEQ ID NO: 1
 15 <211> LENGTH: 25
 16 <212> TYPE: DNA
 17 <213> ORGANISM: artificial sequence
 19 <220> FEATURE:
 20 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
 22 <400> SEQUENCE: 1
 23 aaatgtcgac tgcggtggcc tgacc 25
 26 <210> SEQ ID NO: 2
 27 <211> LENGTH: 25
 28 <212> TYPE: DNA
 29 <213> ORGANISM: artificial sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
 34 <400> SEQUENCE: 2
 35 tgtcgtattg cttcctttcg ggctt 25
 38 <210> SEQ ID NO: 3
 39 <211> LENGTH: 33
 40 <212> TYPE: DNA
 41 <213> ORGANISM: artificial sequence
 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
 46 <400> SEQUENCE: 3
 47 tgcggtggcc tgaccggtct gaactcaggc ctc 33
 50 <210> SEQ ID NO: 4
 51 <211> LENGTH: 29
 52 <212> TYPE: DNA
 53 <213> ORGANISM: artificial sequence
 55 <220> FEATURE:
 56 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
 58 <400> SEQUENCE: 4
 59 aaaaggatcc tgctttgcgg ccggaacga 29
 62 <210> SEQ ID NO: 5
 63 <211> LENGTH: 32
 64 <212> TYPE: DNA

pp 6-7

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67 <220> FEATURE:
68 <223> OTHER INFORMATION: Single strand DNA oligonucleotide
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75 <211> LENGTH: 27
76 <212> TYPE: DNA
77 <213> ORGANISM: artificial sequence
79 <220> FEATURE:
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86 <210> SEQ ID NO: 7
87 <211> LENGTH: 28
88 <212> TYPE: DNA
89 <213> ORGANISM: artificial sequence
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106 <222> LOCATION: (36)..(62)
107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
109 <220> FEATURE:
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111 <222> LOCATION: (78)..(80)
112 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
114 <220> FEATURE:
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116 <222> LOCATION: (110)..(113)
117 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
119 <220> FEATURE:
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121 <222> LOCATION: (129)..(135)
122 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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127 1          5          10          15
130 Ile Ala His Ile Gln Ala Gly Asp Arg Val Phe Ala Lys Asp Glu Thr
131          20          25          30
W--> 134 Ser Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
135          35          40          45
138 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Asn

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Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF4\05232005\J534544.raw

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139      50                      55                      60
142 Gln Thr Leu Ile Ser Asn Lys Ile His Pro Phe Tyr Ser Xaa Xaa Xaa
143 65                      70                      75                      80
148 Trp Ile Gln Ala Gly Arg Leu Lys Lys Gly Asp Thr Leu Leu Ser Glu
149                      85                      90                      95
152 Ser Gly Ala Lys Gln Thr Val Gln Asn Ile Thr Leu Lys Xaa Xaa Xaa
153                      100                      105                      110
156 Xaa Lys Ala Tyr Asn Leu Thr Val Ala Asp Trp His Thr Tyr Phe Val
157                      115                      120                      125
160 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Gly Val Trp Val His Asn Glu
161      130                      135                      140
164 <210> SEQ ID NO: 9
165 <211> LENGTH: 143
166 <212> TYPE: PRT
167 <213> ORGANISM: Neisseria meningitidis (group B)
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (36)..(62)
173 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (78)..(80)
178 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
180 <220> FEATURE:
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182 <222> LOCATION: (110)..(113)
183 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
185 <220> FEATURE:
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187 <222> LOCATION: (129)..(135)
188 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
190 <400> SEQUENCE: 9
192 Ser Phe His Gly Ser Thr Leu Val Lys Thr Ala Asp Gly Tyr Lys Ala
193 1                      5                      10                      15
196 Ile Ala Arg Ile Arg Thr Gly Asp Arg Val Phe Ala Lys Asp Glu Ala
197                      20                      25                      30
W--> 200 Ser Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
201                      35                      40                      45
204 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Asn
205      50                      55                      60
208 Gln Thr Leu Ile Ser Asn Lys Ile His Pro Phe Tyr Ser Xaa Xaa Xaa
209 65                      70                      75                      80
212 Trp Ile Gln Ala Gly Arg Leu Lys Lys Gly Asp Thr Leu Leu Ser Glu
213                      85                      90                      95
216 Ser Gly Ala Lys Gln Thr Val Gln Asn Ile Thr Leu Lys Xaa Xaa Xaa
217                      100                      105                      110
222 Xaa Lys Ala Tyr Asn Leu Thr Val Ala Asp Trp His Thr Tyr Phe Val
223                      115                      120                      125
226 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Gly Val Trp Val His Asn Asp

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05232005\J534544.raw

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230 <210> SEQ ID NO: 10
231 <211> LENGTH: 143
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237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (36)..(62)
239 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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243 <222> LOCATION: (78)..(80)
244 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
246 <220> FEATURE:
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248 <222> LOCATION: (110)..(113)
249 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
251 <220> FEATURE:
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253 <222> LOCATION: (129)..(135)
254 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
256 <400> SEQUENCE: 10
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259 1      5      10      15
262 Ile Ala Arg Ile Arg Thr Gly Asp Arg Val Phe Ala Lys Asp Glu Ala
263      20      25      30
W--> 266 Ser Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
267      35      40      45
270 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Asn
271      50      55      60
274 Gln Thr Leu Ile Ser Asn Lys Ile His Pro Phe Tyr Ser Xaa Xaa Xaa
275 65      70      75      80
278 Trp Ile Gln Ala Gly Arg Leu Lys Lys Gly Asp Thr Leu Leu Ser Glu
279      85      90      95
282 Ser Gly Ala Lys Gln Thr Val Gln Asn Ile Thr Phe Lys Xaa Xaa Xaa
283      100     105     110
286 Xaa Lys Ala Tyr Asn Leu Thr Val Ala Asp Trp His Thr Tyr Phe Val
287      115     120     125
290 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Gly Val Trp Val His Asn Asp
291      130     135     140
294 <210> SEQ ID NO: 11
295 <211> LENGTH: 142
296 <212> TYPE: PRT
297 <213> ORGANISM: Magnetospirillum magnetotacticum
300 <220> FEATURE:
301 <221> NAME/KEY: misc_feature
302 <222> LOCATION: (14)..(14)
303 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
305 <220> FEATURE:

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RAW SEQUENCE LISTING

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05232005\J534544.raw

306 <221> NAME/KEY: misc_feature
 307 <222> LOCATION: (37)..(53)
 308 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 312 <222> LOCATION: (69)..(85)
 313 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 317 <222> LOCATION: (101)..(119)
 318 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 323 1 5 10 15
 326 Ala Ile Glu Thr Val Glu Ile Gly Glu Gln Val Gln Gly Thr Asp Gly
 327 20 25 30
 330 Thr Ile Asn Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 331 35 40 45
 334 Xaa Xaa Xaa Xaa Xaa Asn Ser Leu Asp Phe Phe Val Thr Ala Asp His
 335 50 55 60
 338 Pro Phe Leu Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 339 65 70 75 80
 342 Xaa Xaa Xaa Xaa Xaa Ala Leu Asn Val Thr Gln Leu Val Ile Gly Asp
 343 85 90 95
 346 Thr Leu Ile Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 347 100 105 110
 350 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Val Tyr Asn Leu His Leu Ile Gly
 351 115 120 125
 354 Asn Asn Thr Tyr Val Ala Ser Gly Tyr Tyr Val His Asn Tyr
 355 130 135 140
 358 <210> SEQ ID NO: 12
 359 <211> LENGTH: 149
 360 <212> TYPE: PRT
 361 <213> ORGANISM: Pseudomonas syringae
 364 <220> FEATURE:
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 366 <222> LOCATION: (36)..(66)
 367 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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 370 <221> NAME/KEY: misc_feature
 371 <222> LOCATION: (82)..(86)
 372 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 374 <220> FEATURE:
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 377 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
 379 <220> FEATURE:
 380 <221> NAME/KEY: misc_feature
 381 <222> LOCATION: (140)..(141)

RAW SEQUENCE LISTING ERROR SUMMARY
 PATENT APPLICATION: US/10/534,544

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Input Set : A:\PTO.AMC.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
 Seq#:8; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
 Seq#:8; Xaa Pos. 131,132,133,134,135
 Seq#:9; Xaa Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
 Seq#:9; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
 Seq#:9; Xaa Pos. 131,132,133,134,135
 Seq#:10; Xaa Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
 Seq#:10; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
 Seq#:10; Xaa Pos. 131,132,133,134,135
 Seq#:11; Xaa Pos. 14,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,69
 Seq#:11; Xaa Pos. 70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,101,102
 Seq#:11; Xaa Pos. 103,104,105,106,107,108,109,110,111,112,113,114,115,116
 Seq#:11; Xaa Pos. 117,118,119
 Seq#:12; Xaa Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
 Seq#:12; Xaa Pos. 55,56,57,58,59,60,61,62,63,64,65,66,82,83,84,85,86,102
 Seq#:12; Xaa Pos. 103,104,105,106,107,108,109,110,111,112,113,114,115,116
 Seq#:12; Xaa Pos. 117,118,119,120,121,122,123,124,140,141
 Seq#:13; Xaa Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
 Seq#:13; Xaa Pos. 55,56,57,58,59,60,61,62,63,64,65,66,82,83,84,85,86,102
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 Seq#:14; Xaa Pos. 55,56,57,58,59,60,61,62,63,64,65,66,82,83,84,85,86,102
 Seq#:14; Xaa Pos. 103,104,105,106,107,108,109,110,111,112,113,114,115,116
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 Seq#:16; Xaa Pos. 14,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
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 Seq#:16; Xaa Pos. 117,118,134,135,136,137
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 Seq#:17; Xaa Pos. 42,43,44,45,46,47,48,49,65,66,67,97,98,99,100,116,117,118
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 Seq#:18; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
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 Seq#:19; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
 Seq#:19; Xaa Pos. 131,132,133,134,135
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 Seq#:20; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
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RAW SEQUENCE LISTING ERROR SUMMARY
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Seq#:21; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
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Seq#:22; Xaa Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
Seq#:22; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130
Seq#:22; Xaa Pos. 131,132,133,134,135
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Seq#:23; Xaa Pos. 55,56,57,58,59,60,61,62,78,79,80,110,111,112,113,129,130

VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\05232005\J534544.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
 L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32
 M:341 Repeated in SeqNo=8
 L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:32
 M:341 Repeated in SeqNo=9
 L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:32
 M:341 Repeated in SeqNo=10
 L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
 M:341 Repeated in SeqNo=11
 L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:32
 M:341 Repeated in SeqNo=12
 L:462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:32
 M:341 Repeated in SeqNo=13
 L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:32
 M:341 Repeated in SeqNo=14
 L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
 M:341 Repeated in SeqNo=15
 L:664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
 M:341 Repeated in SeqNo=16
 L:738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16
 M:341 Repeated in SeqNo=17
 L:808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:32
 M:341 Repeated in SeqNo=18
 L:872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:32
 M:341 Repeated in SeqNo=19
 L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:32
 M:341 Repeated in SeqNo=20
 L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:32
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 L:1070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:32
 M:341 Repeated in SeqNo=22
 L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:32
 M:341 Repeated in SeqNo=23
 L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:32
 M:341 Repeated in SeqNo=24
 L:1262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:32
 M:341 Repeated in SeqNo=25
 L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:32
 M:341 Repeated in SeqNo=26
 L:1390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:32
 M:341 Repeated in SeqNo=27
 L:1456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:32
 M:341 Repeated in SeqNo=28
 L:1530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32
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 L:1596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32
 M:341 Repeated in SeqNo=30

VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

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L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:32

M:341 Repeated in SeqNo=31

L:1726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:32

M:341 Repeated in SeqNo=32